- 24. A method for the manufacture of an implantable cartilaginous tissue repair device according to claim 20 which further comprises a step of mineralising a surface layer, extension or flange of said implantable cartilaginous tissue repair device.
- 25. A method for the manufacture of an implantable cartilaginous tissue repair device according to claim 24 in which said step of mineralising a surface layer, extension or flange of said implantable cartilaginous tissue repair device comprises the substeps of:

preparing a buffered phosphate solution;

- adding said buffered phosphate solution to the hydrogel which is to be contained within said surface layer, extension or flange of said implantable cartilaginous tissue repair device;
- controlled freezing and/or drying of said surface layer, extension or flange of said implantable cartilaginous tissue repair device;
- exposing said surface layer, extension or flange of said implantable cartilaginous tissue repair device to a buffered calcium chloride solution.
- 26. A method for the manufacture of an implantable cartilaginous tissue repair device according to claim 25 in which said buffered phosphate solution is added to the hydrogel by utilising said buffered phosphate solution in gelling the hydrogel.
- 27. A method for the manufacture of an implantable tissue repair device comprising the steps of:
 - forming a three-dimensional fibre lay from biocompatible and at least partially bioresorbable fibres by one or more of the methods of: winding or weaving or compressing felts or twisting or knitting or braiding or stitching or embroidery or combining layers of cloth;
 - preparing a biocompatible and at least partially bioresorbable hydrogel;
 - either during or after production of said three-dimensional fibre lay, infiltrating said three-dimensional fibre lay with said biocompatible and at least partially bioresorbable hydrogel;

mineralising at least one surface of said implantable tissue repair device by:

preparing a buffered phosphate solution;

adding said buffered phosphate solution to the hydrogel contained within said surface of said implantable tissue repair device:

controlled freezing and/or drying of said surface of said

implantable tissue repair device; exposing said surface of said implantable tissue repair device to a buffered calcium chloride solution.

- 28. A method for the manufacture of an implantable tissue repair device according to claim 27 in which said buffered phosphate solution is added to the hydrogel by utilising said buffered phosphate solution in gelling the hydrogel.
 - 29. An implantable tissue repair device comprising:
 - a biocompatible and at least partially bioresorbable fibre lay at least partially infiltrated by:
 - a biocompatible and at least partially bioresorbable hydro-

and

- an integral attachment means for attaching said fibre lay and/or said hydrogel to bone comprising at least one mineralised surface.
- 30. An implantable tissue repair device comprising a biocompatible and at least partially bioresorbable, mineralised hydrogel.
- 31. A method for the manufacture of an implantable tissue repair device comprising the steps of:
 - preparing a biocompatible and at least partially bioresorbable hydrogel;

mineralising said hydrogel by:

preparing a buffered phosphate solution;

adding said buffered phosphate solution to the hydrogel; controlled freezing and/or drying of said hydrogel;

exposing said hydrogel to a buffered calcium chloride solu-

32. A method for the manufacture of an implantable tissue repair device according to claim 31 in which said buffered phosphate solution is added to the hydrogel by utilising said buffered phosphate solution in gelling the hydrogel.